

Patent Abstracts of Japan

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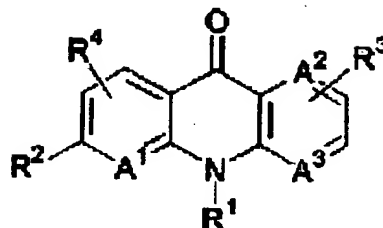
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APPLICANT : TOYAMA CHEM CO LTD;

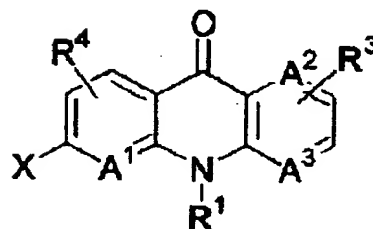
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TITLE : NITROGEN-CONTAINING TRI-OR
TETRACYCLIC COMPOUND AND
ANTIVIRAL AGENT CONTAINING THE
SAME COMPOUND



I



II

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject medicine such as antiherpes viral agent exhibiting excellent antiviral activity and useful as a medicine by including a specific nitrogen-containing tri or tetracyclic compound.

SOLUTION: This antiviral agent contains a nitrogen-containing tri or tetracyclic compound of formula I [R¹ is a (substituted)alkyl or the like; R² is a (substituted)aryl or the like; R³ is H or the like; R⁴ is H or the like; A¹ or A² is N or the like; A³ is CH or the like] or its salt [e.g. 2-fluoro-10-methyl-6-(pyridin-4-yl)-9,10-dihydro-9-acylidinone or the like]. The antiviral agent is administered at a daily dose of 0.1-100 mg/kg.adult once or in several portions. The compound of formula I is obtained by subjecting a compound of formula II (X is a leaving group) to coupling reaction with a tin compound of the formula R²-Sn (Alk)₃ (Alk is a lower alkyl) in the presence (or absence) of silver oxide and in the presence of a palladium catalyst.

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